UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SPECIFIC CONDUCTANCE AND DISSOLVED CHLORIDE CONCENTRATIONS OF FRESHWATER AQUIFERS AND STREAMS IN PETROLEUM PRODUCING AREAS IN MISSISSIPPI

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FACTORS FOR CONVERTING INCHPOUND UNITS TO INTERNATIONAL SYSTEM (SI) UNITS

Factors for converting inch-pound units to metric units are shown below to four signigicant figures. In the text, metric equivalents are shown only to the number of significant figures consistent with the accuracy of analytical determinations or measurement.

Multiply	By	To obtain
inch (in)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
square mile (mi^2)	2.590	square kilometer (km^2)
cubic foot per second (ft^2/s)	0.02832	cubic meter per second (m^2/s)

DEFINITION OF TERMS

Milligrams per liter (mg/l) is a unit expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water.

Specific conductance is a measure of the ability of water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C (umhos). Because the specific conductance is related to the number and specific chemical types of ions solutions, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in mg/l) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream and may even vary in the same source with changes in the composition of the water.

Note: The term "milligrams per liter" is essentially equivalent to the unit "parts per million".

SPECIFIC CONDUCTANCE AND DISSOLVED CHLORIDE CONCENTRATIONS OF FRESHWATER AQUIFERS AND STREAMS IN PETROLEUM PRODUCING AREAS IN MISSISSIPPI

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ABSTRACT

Water samples from 224 ground-water and 190 surface-water sites were collected in six oil producing areas of Mississippi during periods of low streamflow in 1980 and 1981, and were analyzed for specific conductance and dissolved chloride concentrations. Samples from 55 surface-water and 17 ground-water sites contained dissolved chloride concentrations in excess of 100 milligrams per liter. The data collected are presented in tables without interpretation. The study was conducted by the U.S. Geological Survey in cooperation with the Mississippi Bureau of Pollution Control.

INTRODUCTION

Oil and gas occur at depth in most of the geologic units in Mississippi. The first successful oil well was drilled in Yazoo County in 1939. Since then, thousands of wells have been drilled and the producing areas have expanded into many parts of the state.

Petroleum production is accompanied by the production of saltwater. Normally, newly completed wells will have a lower saltwater to oil ratio than wells which have been pumping a number of years. This ratio may vary from almost no saltwater to over 20 barrels of saltwater per barrel of oil (Mississippi State Oil and Gas Board, 1980, p. 15).

The most common historical method of saltwater disposal was by "evaporation pits", which, in many cases, actually discharged much water to underlying unconfined aquifers or nearby streams. Although this practice is now prohibited, thousands of pits were constructed and their impact on the hydrologic system is largely unknown. Saltwater contamination of groundwater may also result from improperly constructed or leaking injection wells.

A surface-water and ground-water sampling program to identify locations of brine contamination in oil producing areas was undertaken in cooperation with the Mississippi Bureau of Pollution Control. The results of the first year of the three-year study are presented in this report.

LOCATION OF STUDY AREAS

Six of the most active petroleum producing areas in southern and central Mississippi were selected for study (fig. 1). Study area 1 (fig. 2) encompasses approximately 250 mi² in Yazoo and Madison counties and includes two major oil fields, Pickens and Tinsley. Study area 2 (fig. 3) in southwestern Mississippi includes all of Adams, the southwestern quarter of Jefferson, the west half of Franklin, the northwestern corner of Amite, and the northern half of Wilkinson counties. This area of approximately 1400 mi² contains numerous oil fields. Area 3 (fig. 4) includes approximately 470 mi² in central and southern Lincoln, the northern half of Pike, and a small corner of northeastern Amite counties. McComb, Smithdale, Brookhaven, Little Creek, and Mallalieu are the major oil fields in this area. Study area 4 (fig. 5) encompasses the Baxterville oil and gas field in Marion and Lamar counties. This study area is approximately 40 mi². Study area 5 (fig. 6) encompasses approximately 1550 mi² in the southern half of both Clarke and Jasper counties, the northern half of Jones and Wayne counties, and the extreme southeastern part of Smith county. Numerous oil fields are located in study area 5. Approximately 50 mi² are included in study area 6 (fig. 5) in northeastern Forrest counties which include Pistol Ridge and Maxie oil and gas fields.

DATA COLLECTION

Specific conductance and dissolved chloride concentrations were determined at 224 ground-water and 163 surface-water sites from mid-September to the first week in November 1981 during a low streamflow period. Also, 27 surface-water sites were sampled during a low stream-flow period in October 1980. A field specific conductance value was determined at the sampling site and a water sample collected for laboratory analysis of dissolved chloride concentration. Surface-water samples were generally collected only if the specific conductance was greater than 100 umhos.

RESULTS OF THE ANALYSES

The results of the specific conductance and chloride analysis are listed in tables 1 through 12. Sampling sites are shown in figures 2 through 6. Dissolved chloride concentrations of 54 of the surface-water samples collected during the study were greater than 100 mg/l. The maximum concentration of 15,000 mg/l was determined from a spring in Jasper county.

Chloride concentrations greater than 100 mg/l were found in samples from at least one water well in each study area. Water samples from four wells owned by International Paper Company south of Natchez had concentrations ranging from 100 mg/l to 260 mg/l. One well each in sites 1, 4, and 5, contained concentrations greater than 100 mg/l. The maximum concentration of 680 mg/l from a ground-water site is in water from a well in Pearl River County.

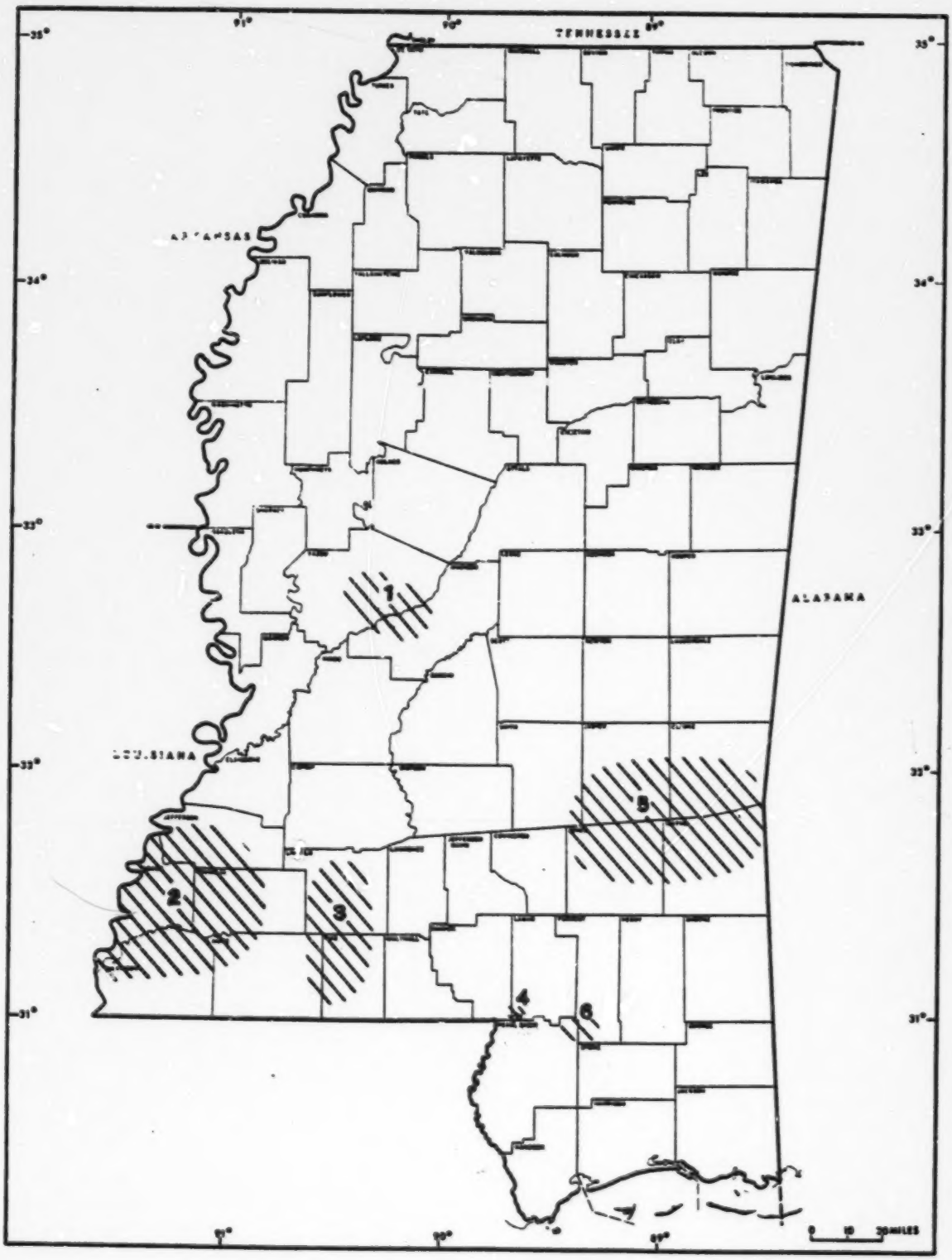
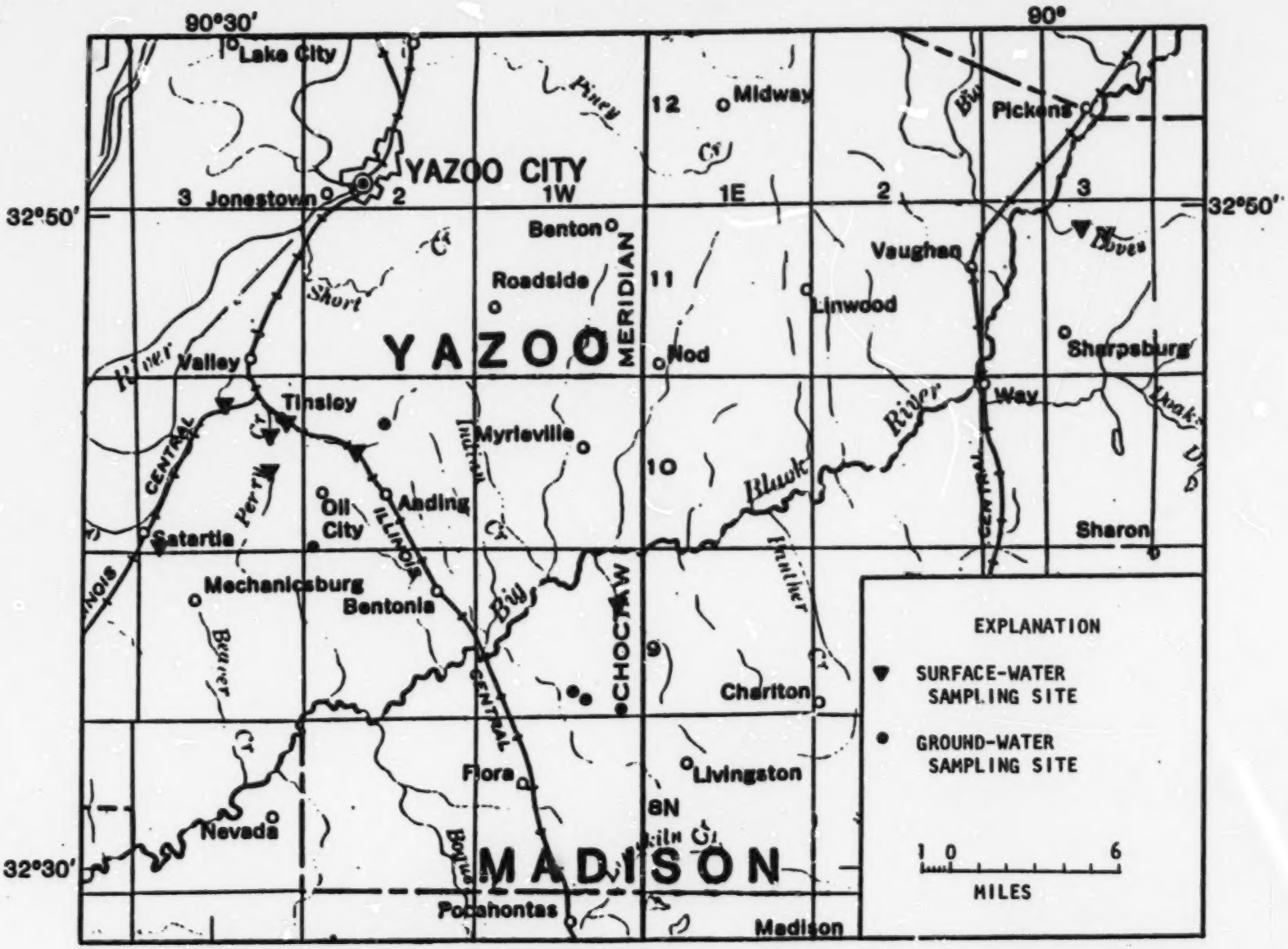


FIGURE 1.--LOCATION OF STUDY AREAS.



Base map modified from U.S. Geological Survey Map of Mississippi, 1972

FIGURE 2.--SURFACE-WATER AND GROUND-WATER SAMPLING SITES IN AREA 1.

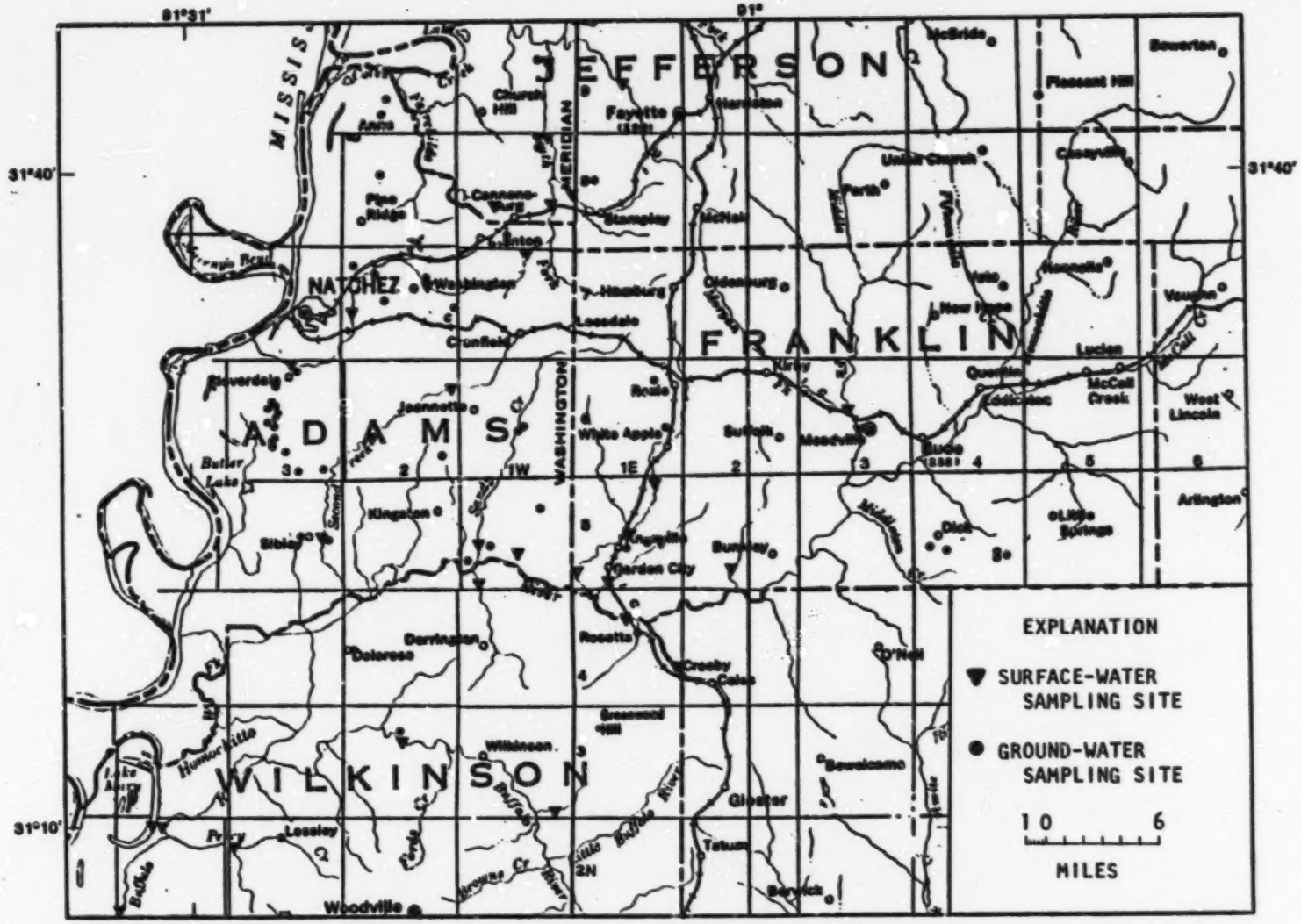
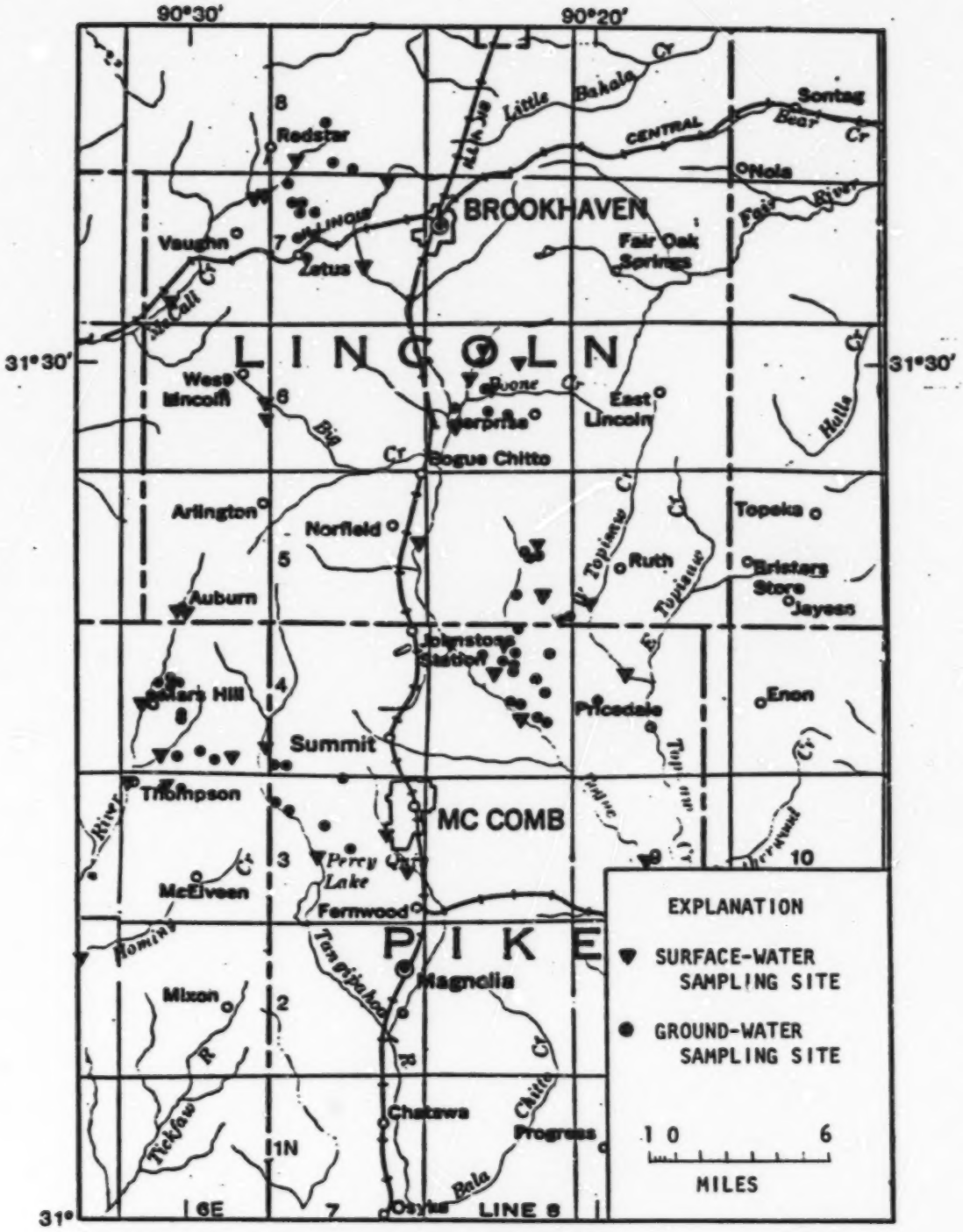
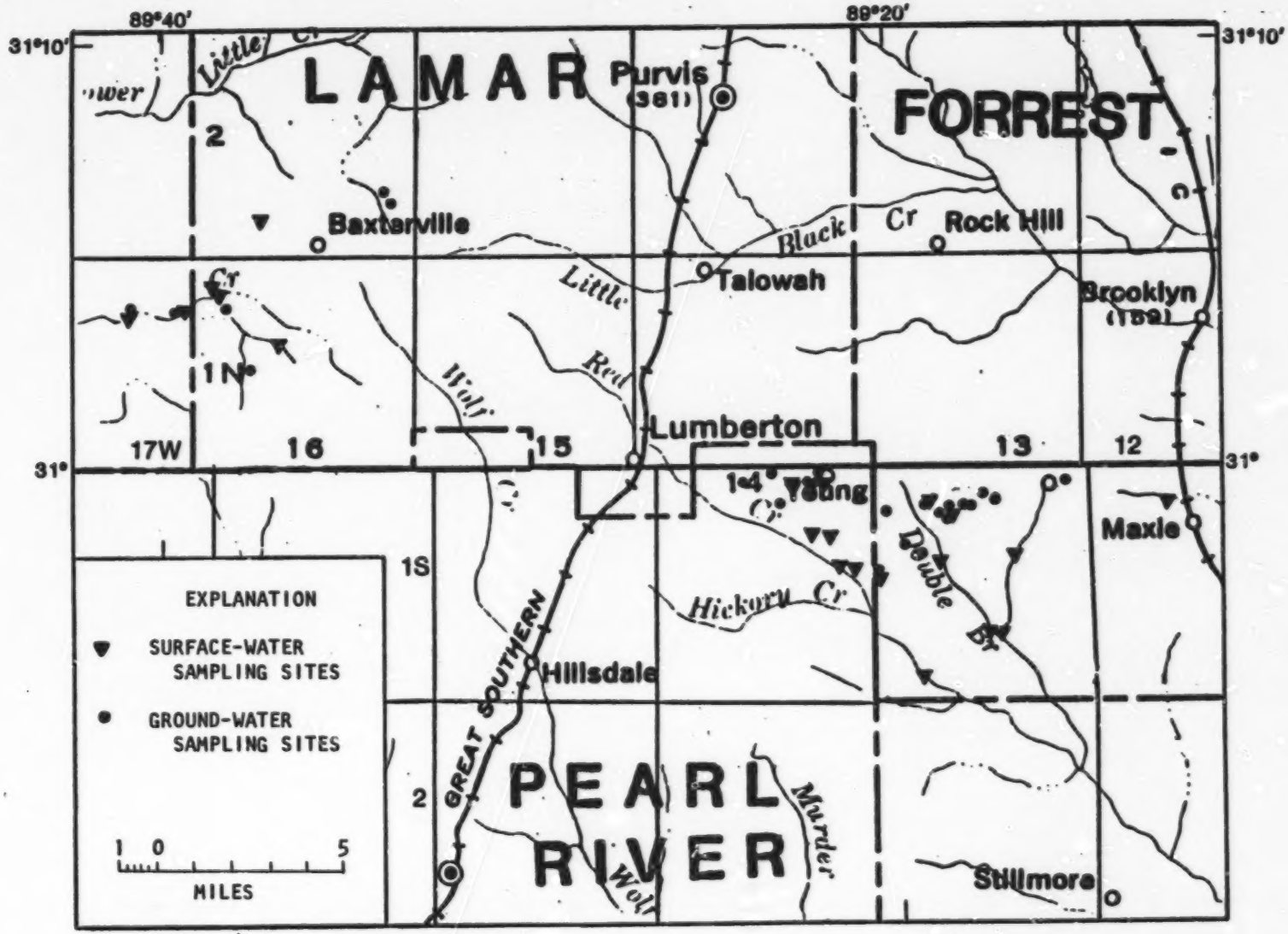


FIGURE 3.--SURFACE-WATER AND GROUND-WATER SAMPLING SITES IN AREA 2.



Base map modified from U.S. Geological Survey Map of Mississippi, 1972

FIGURE 4.--SURFACE-WATER AND GROUND-WATER SAMPLING SITES IN AREA 3.



Base map modified from U.S. Geological Survey Map of Mississippi, 1972

FIGURE 5.--SURFACE-WATER AND GROUND-WATER SAMPLING SITES IN AREAS 4 AND 6.

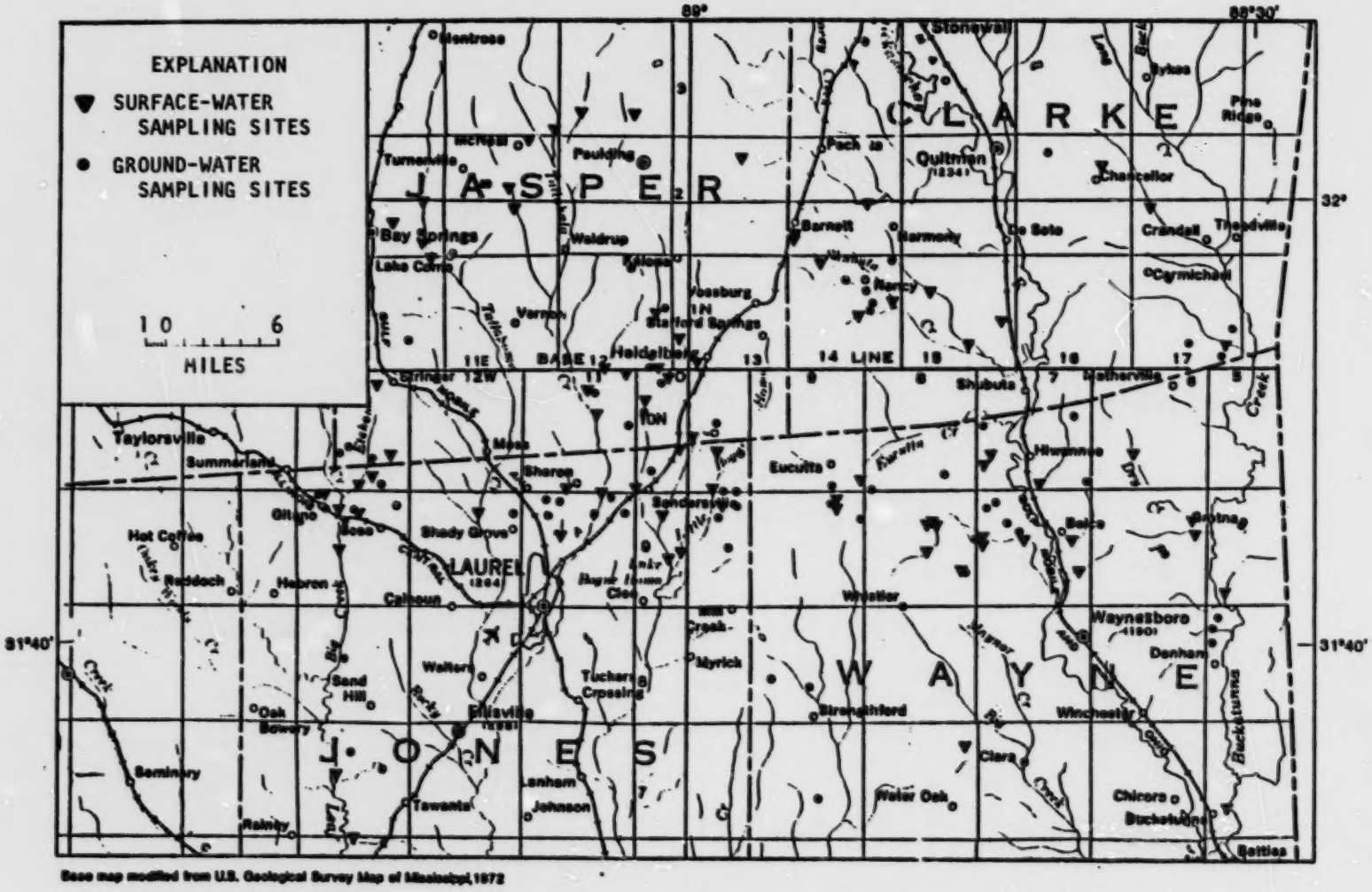


FIGURE 6.--SURFACE-WATER AND GROUND-WATER SAMPLING SITES IN AREA 5.

TABLE 1.--LOCATION, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT SURFACE-WATER SITES IN AREA 1

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
		MADISON COUNTY, MS				
Loves Creek	SW¼SE¼ 3	11N	3E	10/21/81	850	200
Loves Creek	NE¼ 11	11N	3E	10/28/81	340	34
Unnamed	SW¼SE¼ 35	12N	3E	10/21/81	650	32
Persimmon Creek	NW¼NW¼ 13	9N	1W	10/22/81	450	26
		YAZOO COUNTY, MS				
Unnamed	NE¼SE¼ 31	10N	3W	10/20/81	500	10
Thompson Creek	NE¼SW¼ 12	10N	3W	10/20/81	4000	120
Perry Creek	SE¼SE¼ 11	10N	3W	10/20/81	8500	3700
O'Neil Creek	SE¼SW¼ 3	10N	3W	10/20/81	300	1.1
Perry Creek	NW¼NE¼ 23	10N	3W	10/21/81	11200	4000
Thompson Creek	SE¼SE¼ 17	10N	2W	10/20/81	520	18

TABLE 2.--LOCATION, WELL DEPTH, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT GROUND-WATER SITES IN AREA 1

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			MADISON COUNTY, MS				
Community Well	NW¼NE¼ 2	11N	3E	52	10/28/81	609	29
Sonny Posey	NE¼SW¼ 36	9N	1W	*	10/28/81	427	5.5
Joe Rule	SW¼NW¼ 35	9N	1W	*	10/28/81	449	9.6
Memorial Circle	NW¼NE¼ 34	9N	1W	1398	10/28/81	268	2.3
			YAZOO COUNTY, MS				
Tommy Twiner	SE¼SW¼ 31	10N	2W	*	10/28/31	1218	200
Ed Williams	NE¼SW¼ 9	10N	3W	*	10/28/81	532	25

* Well depth unknown, but estimated to be less than 300 feet

TABLE 3.--LOCATION, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT SURFACE-WATER SITES IN AREA 2

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
ADAMS COUNTY, MS						
St. Catherine Creek	NE¼SW¼ 28	7N	2W	09/25/81	350	5.8
St. Catherine Creek	71	7N	2W	09/25/81	1150	120
St. Catherine Creek	NW¼ 8	6N	2W	10/20/80	1100	220
				09/14/81	420	61
				09/22/81	1400	260
Second Creek	26	6N	2W	10/20/80	98	4.5
Second Creek	37	6N	2W	10/20/80	784	200
Second Creek	SE¼ 13	5N	3W	10/20/80	625	140
				09/23/81	540	92
Sandy Creek	28	5N	1W	10/20/80	220	46
				09/23/81	900	250
Pretty Creek	36	5N	1W	09/16/81	1700	470
				09/23/81	1800	510
FRANKLIN COUNTY, MS						
Homochitto River	20	6N	3E	10/21/80	260	74
Homochitto River	28	6N	3E	10/21/80	240	63
Richardson Creek	NW¼NW¼ 34	5N	2E	09/17/81	245	63
				10/21/81	430	130
Dry Creek	NW¼SW¼ 34	5N	1E	09/17/81	330	77
Dry Creek	NE¼SE¼ 45	5N	1E	10/20/80	270	69
				09/17/81	541	150
Wells Creek	5	5N	1E	09/23/81	480	120
Wells Creek	31	5N	1E	09/17/81	330	92
				09/23/81	460	110
Wells Creek	43	5N	1E	09/23/81	570	150

TABLE 3.--Continued

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
JEFFERSON COUNTY, MS						
Bolts Creek		37	9N 1E	09/23/81	160	10
Mud Island Creek		38	9N 1E	09/23/81	380	5.9
South Fork Coles Creek	SE¼NW¼	35	8N 1W	09/21/81	710	180
Turpin Creek		37	8N 1W	09/22/81	500	6.2
Folks Creek		33	8N 1W	09/21/81	620	140
South Fork Coles Creek		3	8N 1W	09/22/81	700	140
South Fork Coles Creek	SW¼	31	9N 1W	09/23/81	640	120
WILKINSON COUNTY, MS						
Foster Creek	SW¼SE¼	29	4N 1E	09/23/81	75	9.9
Homochitto River		13	4N 1E	09/23/81	115	24
Crooked Creek		53	4N 1W	09/24/81	140	17
Dry Creek	SW¼SW¼	25	3N 1W	10/20/80	1140	330
				09/24/81	185	38
Buffalo River		21	3N 2W	09/24/81	60	7.8
Percy Creek		11	2N 3W	09/24/81	180	6.9
Buffalo River		12	2N 4W	09/24/81	140	14
Buffalo River		18	2N 5W	10/20/80	500	18
Lake Mary		12	2N 5W	09/24/81	280	16

TABLE 4.--LOCATION, WELL DEPTH, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT GROUND-WATER SITES IN AREA 2

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			ADAMS COUNTY, MS				
Jerome Arnold	NW¼NW¼ 23	5N	3W	125	09/23/81	310	4.1
Broadmoor Utility	17	7N	2W	150	09/15/81	570	8.1
John Brown	15	5N	3W	214	09/17/81	380	3.4
Luther Davis	24	6N	2W	165	09/17/81	430	3.3
Lamar Felter	NW¼NW¼ 30	8N	2W	200	09/15/81	760	5.5
Luke Green	27	5N	1W	35	09/16/81	420	120
R.L. Hensley	19	7N	2W	170	09/15/81	500	8.5
Larry Holder	NW¼NW¼ 61	7N	2W	240	09/16/81	560	6.1
Chester Hoover	13	9N	2W	265	09/15/81	660	8.0
Chester Hoover	19	9N	2W	265	09/15/81	660	8.0
Mead Hufford	30	6N	3W	170	09/17/81	450	2.2
International Paper #13	SE¼NW¼ 14	6N	3W	213	09/22/81	1750	260
International Paper #14	SE¼NW¼ 14	6N	3W	209	09/22/81	860	58
International Paper #15	NW¼SE¼ 14	6N	3W	209	09/22/81	650	32
International Paper #16	14	6N	3W	*	09/22/81	950	110
International Paper #16A	NE¼SW¼ 20	6N	3W	201	09/22/81	1020	100
International Paper #17	SE¼SE¼ 14	6N	3W	220	09/22/81	850	80
International Paper #18	SE¼NE¼ 20	6N	3W	232	09/22/81	1400	240

TABLE 4.—Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
ADAMS COUNTY, MS (Continued)							
International Paper #20	SW¼NW¼ 19	6N	3W	251	09/22/81	980	85
International Paper #21	19	6N	3W	*	09/22/81	690	16
International Paper #21A	NE¼SW¼ 14	6N	3W	184	09/22/81	650	29
International Paper #22	SW¼SW¼ 19	6N	3W	264	09/22/81	620	16
International Paper #23	SW¼SW¼ 19	6N	3W	250	09/22/81	676	24
International Paper #24	30	6N	3W	*	09/22/81	887	30
International Paper Research	43	6N	3W	260	09/17/81	490	5.1
T.L. James	47	7N	2W	447	09/16/81	460	2.0
Richard Junkin	9	8N	2W	45	09/15/81	700	3.5
J.T. Marsh	60	8N	1W	262	09/21/81	435	5.0
Floyd McCalip	14	6N	3W	266	09/17/81	470	6.2
Hugh Pearson III	39	6N	3W	169	09/14/81	520	6.5
Rayborn Drilling	51	7N	2W	165	09/15/81	550	5.7
St. Catherine Gravel	28	7N	2W	90	09/18/81	520	6.5
St. Catherine Ready Mix	NW¼NW¼ 7	6N	3W	165	09/14/81	800	48
J.M. Thomas	45	6N	1W	160	09/16/81	550	98
U.S. Forest Service	20	5N	1W	*	09/16/81	230	6.5
James Willard	45	6N	1W	75	09/16/81	760	210
Clyde Williams	29	5N	1W	100	09/16/81	36	2.6

TABLE 4.--Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
FRANKLIN COUNTY, MS							
Spurgeon Beach	NW¼NE¼ 21	6N	1E	160	09/17/81	135	5.3
E.A. Cotren	SW¼NE¼ 26	5N	4E	*	09/18/81	30	2.0
D.R. Foster	NW¼NE¼ 26	5N	4E	150	09/18/81	34	3.0
E. Gamble	SW¼NW¼ 25	5N	4E	100	09/18/81	43	5.0
L. Hancock	NE¼NE¼ 29	5N	4E	82	09/17/81	40	6.1
Wallace Howard	SE¼NE¼ 33	5N	1E	63	09/17/81	112	14
M. Jackson	SE¼SE¼ 19	5N	4E	85	09/18/81	58	3.0
H.D. Shell	40	5N	1E	151	09/17/81	120	21
M.J. Woodyear	SE¼NE¼ 30	6N	1E	*	09/16/81	160	16
JEFFERSON COUNTY, MS							
John Cates	4	8N	1N	150	09/22/81	380	4.0
Natchez Trace Parkway	65	8N	1W	444	09/22/81	660	13
Isabele Pinder	22	9N	1W	150	09/23/81	640	7.0
Willie Simon	30	8N	1E	167	09/21/81	260	6.5
WILKINSON COUNTY, MS							
Dave Carter	15	3N	2W	21	09/17/81	145	8.2
McCartle	25	4N	2W	110	09/17/81	780	29

* Well depth unknown, but estimated to be less than 300 feet

TABLE 5.--LOCATION, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT SURFACE-WATER SITES IN AREA 3

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
AMITE COUNTY, MS						
Haymans Creek	SE¼SE¼ 25	4N	6E	11/03/81	61	6.3
Cobb Branch	NE¼SE¼ 35	4N	6E	10/20/81	1500	470
East Fork Amite River	NE¼NE¼ 19	4N	6E	10/20/80	105	24
Gordon Creek	NW¼NE¼ 32	4N	6E	10/20/80	76	15
East Fork Amite River	SE¼NW¼ 6	3N	6E	10/20/80	73	14
Unnamed	NE¼SE¼ 5	3N	6E	11/02/81	95	1.6
East Fork Amite River	SW¼SW¼ 27	2N	5E	11/02/81	53	8.9
Hominy Creek	SW¼NW¼ 11	2N	5E	11/02/81	30	2.8
LINCOLN COUNTY, MS						
East Fork Amite River	NW¼SW¼ 33	5N	6E	10/21/80	40	4.5
Adam Creek	NE¼SW¼ 33	5N	6E	10/21/80	47	4.9
West Topisaw Creek	NE¼NW¼ 31	5N	9E	11/04/81	30	4.0
Little Creek	SW¼SE¼ 14	5N	8E	11/04/81	50	7.7
Little Creek	SE¼SE¼ 26	5N	8E	10/06/81	440	120
Little Creek	SW¼SE¼ 36	5N	8E	10/06/81	400	120
West Bogue Chitto River	NW¼NE¼ 2	7N	7E	11/06/81	120	6.6
Unnamed	SE¼NE¼ 10	6N	8E	11/04/81	170	40
Unnamed	SE¼SE¼ 16	6N	8E	11/04/81	36	4.8
Jordan Creek	NE¼NE¼ 8	6N	8E	11/04/81	52	6.3
Jordan Creek	NW¼NE¼ 17	6N	8E	10/06/81	520	150

TABLE 5.--Continued

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
		LINCOLN COUNTY, MS (Continued)				
Boone Creek	SE¼SE¼ 19	6N	8E	10/06/81	160	39
Big Creek	SE¼SE¼ 24	6N	6E	11/05/81	110	23
Panther Creek	NE¼SE¼ 24	6N	6E	11/05/81	120	26
Bogue Chitto River	NW¼SE¼ 13	5N	7E	10/21/80	80	15
Shaws Creek	SW¼NE¼ 31	8N	7E	10/06/81	240	60
Shaws Creek	SE¼SE¼ 1	7N	6E	10/05/81	200	52
Shaws Creek	NW¼NW¼ 12	7N	6E	10/21/80	138	36
McCall Creek	SW¼SW¼ 28	7N	6E	10/21/80	71	14
Hurricane Creek	NE¼SE¼ 7	6N	6E	10/06/81	115	23
		PIKE COUNTY, MS				
Bogue Chitto River	SW¼SE¼ 6	4N	8E	11/03/81	64	11
Lazy Creek	SE¼NE¼ 4	4N	8E	10/06/81	280	80
Lazy Creek	NW¼SE¼ 9	4N	8E	11/03/81	260	72
Bogue Chitto River	NE¼SW¼ 22	4N	8E	10/21/80	105	21
Bogue Chitto River	SE¼SW¼ 21	3N	9E	10/21/80	70	12
West Topisaw Creek	NE¼NW¼ 17	4N	9E	11/04/81	100	25
Tangipahoa River	SW¼NE¼ 20	3N	7E	10/21/80	193	48
Little Tangipahoa River	NE¼SW¼ 14	3N	7E	11/03/81	130	31
Town Creek	SW¼SE¼ 24	3N	7E	11/03/81	255	21

TABLE 6.--LOCATION, WELL DEPTH, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT GROUND-WATER SITES IN AREA 3

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
AMITE COUNTY, MS							
Myra Alford	NW¼NW¼ 34	4N	6E	85	11/02/81	56	5.3
Zack Allard	NE¼SW¼ 16	4N	6E	85	11/02/81	205	50
J.A. Burris	SW¼NE¼ 4	3N	6E	100	11/02/81	44	3.5
Effie Clark	SE¼SE¼ 17	4N	6E	100	11/03/81	300	80
Henry Cooper	NE¼SE¼ 21	4N	6E	80	11/02/81	42	5.8
Mrs. J.D. Davis	NW¼SW¼ 16	4N	6E	85	11/02/81	65	8.6
Paul Dyke, Sr.	SW¼NE¼ 21	4N	6E	30	11/02/81	53	8.2
J.F. Edwards	SE¼NW¼ 33	4N	6E	80	11/02/81	32	4.6
L.D. McCurley	NE¼SE¼ 34	4N	6E	100	11/02/81	350	97
Jewell McKnight	NE¼SE¼ 34	4N	6E	55	11/02/81	30	1.8
E.H. Mitchell	NW¼NW¼ 16	4N	6E	80	11/02/81	39	3.6
Mrs. C.W. Robinson	SE¼NE¼ 5	3N	6E	175	11/02/81	56	6.1
Grovery Smith	SW¼SE¼ 17	4N	6E	133	11/02/81	1800	580
Mrs. Leo Wilkinson	SW¼SE¼ 17	4N	6E	60	11/03/81	910	270
Mrs. I. Young	NE¼SE¼ 17	4N	6E	100	11/03/81	1530	470
LINCOLN COUNTY, MS							
David Allen	SW¼NE¼ 9	6N	8E	*	11/05/81	34	4.0
Marley Bowman, Jr.	SE¼NW¼ 21	6N	8E	*	11/04/81	23	1.9
Rayburn Bowman	SW¼NE¼ 6	7N	7E	256	11/05/81	97	2.7
Bernard Brister	SW¼NE¼ 22	6N	8E	40	11/05/81	33	4.2
Floyd Britt	SW¼SW¼ 21	8N	7E	50	11/06/81	50	6.2
N.G. Brown	SW¼SW¼ 34	8N	7E	55	11/06/81	120	24
Cecil Case	NE¼NE¼ 7	7N	7E	100	11/06/81	430	120
Harry Case	NW¼SW¼ 8	7N	7E	80	11/05/81	160	40
John Case, Jr.	NW¼NW¼ 8	7N	7E	85	11/06/81	133	30
John Case, Jr.	NW¼NW¼ 8	7N	7E	45	11/06/81	800	260

TABLE 6.--Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
LINCOLN COUNTY, MS (Continued)							
Clareman Hodges	SE¼NE¼ 22	5N	8E	75	11/04/81	110	28
L.J. Martin	NE¼SE¼ 36	5N	8E	*	11/04/81	63	3.8
John McCurley	SW¼NE¼ 6	7N	7E	50	11/05/81	190	50
Steve McFadden	SW¼NW¼ 20	7N	7E	100	11/04/81	38	2.5
F. Moak	NE¼SE¼ 22	5N	8E	98	11/04/81	32	3.0
G.E. Moncrief	NW¼NE¼ 19	6N	8E	60	11/05/81	39	4.0
George Mozola	NW¼NW¼ 21	6N	6E	246	11/06/81	58	3.5
H.R. Owens	SE¼NE¼ 18	7N	7E	150	11/04/81	85	15
Mrs. Luther Russians	SE¼NW¼ 14	6N	6E	*	11/06/81	134	24
Smith	NW¼SE¼ 8	7N	7E	80	11/04/81	330	88
Wayne Smith	SE¼NW¼ 33	8N	7E	56	11/06/81	52	7.5
Mrs. Ben Stewart	SW¼NE¼ 16	6N	8E	60	11/05/81	33	4.4
Tyler	SE¼NW¼ 23	5N	8E	80	11/04/81	32	4.0
B.D. Warren	NE¼SW¼ 17	7N	7E	54	11/04/81	209	56
G. Warren	SW¼SW¼ 14	6N	6E	75	11/06/81	56	8.6
Carol A. Watts	SE¼NW¼ 17	7N	7E	65	11/04/81	176	48
PIKE COUNTY, MS							
Fred Alexander	NE¼NE¼ 3	4N	8E	165	11/04/81	45	6.9
Sydney Alexander	SW¼NW¼ 10	4N	8E	*	11/04/81	155	37
James Anding	SW¼SW¼ 15	3N	7E	100	11/03/81	340	96
F. Bridges	NE¼SE¼ 14	4N	8E	*	11/04/81	27	2.6
Joe C. Brown	SW¼SE¼ 10	4N	8E	425	11/04/81	126	2.4
Mrs. A.M. Busby	SW¼NW¼ 22	4N	8E	70	11/05/81	59	8.7
J.E. Busby	NE¼NE¼ 22	4N	8E	60	11/04/81	80	18
B.T. Gutter	NE¼NE¼ 11	4N	8E	125	11/04/81	44	9.0
Devone Guy	NW¼NE¼ 14	4N	8E	110	11/04/81	32	4.0

TABLE 6.--Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
PIKE COUNTY, MS (Continued)							
Elwin Hewitt	NW¼SE¼ 7	3N	7E	32	11/03/81	51	6.8
J. Lofton	NW¼SE¼ 23	4N	8E	200	11/04/81	160	2.4
Fred McCullough	SE¼SE¼ 18	4N	9E	160	11/04/81	24	1.8
Lonnie Pittman	NW¼SE¼ 10	4N	8E	*	11/04/81	350	100
E.A. Rollins	SE¼SE¼ 23	4N	8E	60	11/04/81	55	11
H.L. Tate	NW¼NW¼ 7	3N	7E	104	11/03/81	34	2.2
J.E. Tate	NW¼NW¼ 7	3N	7E	100	11/03/81	36	4.9
Clem Wallace	NE¼NW¼ 9	4N	8E	100	11/04/81	34	1.1
J.R. Wilkinson	NW¼SW¼ 31	4N	7E	85	11/03/81	46	8.4
T. Wittington	NE¼NE¼ 4	3N	7E	*	11/03/81	34	2.5
M.L. Wroten	NE¼SE¼ 31	4N	7E	100	11/03/81	42	5.2

* Well depth unknown, but estimated to be less than 300 feet

TABLE 7.--LOCATION, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT SURFACE-WATER SITES IN AREA 4

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			LAMAR COUNTY, MS			
Burnt Reed Brake	NE¼SE¼ 22	2N	16W	10/20/81	18	2.9
Clear Creek	NE¼NE¼ 32	2N	16W	10/19/81	18	2.1
Dry Creek	NW¼NE¼ 16	1N	16W	10/19/81	15	3.3
Unnamed	SE¼SE¼ 6	1N	16W	10/19/81	1350	460
Clear Creek	NE¼NE¼ 7	1N	16W	10/19/81	295	86
			MARION COUNTY, MS			
Clear Creek	SE¼NE¼ 12	1N	17W	10/19/81	310	91
				10/21/81	310	90
Clear Creek	NE¼SW¼ 11	1N	17W	10/19/81	375	--

TABLE 8.--LOCATION, WELL DEPTH, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT GROUND-WATER SITES IN AREA 4

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			LAMAR COUNTY, MS				
Virgil F. Davis	NE¼SE¼ 7	1N	16W	235	10/19/81	99	22
Willie Entrekin	NE¼SW¼ 25	2N	16W	60	10/20/81	17	.1
Ottis Holston	SE¼SW¼ 17	1N	16W	*	10/19/81	1270	390
Mrs. R.E. Thompson	SW¼NW¼ 25	2N	16W	60	10/20/81	22	1.3
			MARION COUNTY, MS				
Douglas C. Alford	NE¼SW¼ 11	1N	17W	130	10/19/81	57	11
Virgis Schrader	NW¼SE¼ 12	1N	17W	148	10/19/81	71	1.6

* Well depth unknown, but estimated to be less than 300 feet

TABLE 9.--LOCATION, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT SURFACE-WATER SITES IN AREA 5

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
CLARKE COUNTY, MS						
Unnamed				10/15/81	475	120
Shubuta Creek	NE¼SW¼ 30	2N	14E	10/07/81	15	2.6
Castoffa Creek	NE¼NW¼ 31	2N	14E	10/07/81	373	110
Shubuta Creek	NE¼SE¼ 5	1N	14E	10/07/81	94	23
Shubuta Creek	SE¼NE¼ 13	1N	14E	10/07/81	99	23
Prairie Branch	NE¼NE¼ 22	1N	14E	10/07/81	7500	2500
Bogue Homo	NW¼NE¼ 17	1N	15E	10/07/81	82	1.8
Bogue Homo	SW¼SE¼ 27	1N	15E	10/07/81	176	9.4
Watts Creek	SE¼NW¼ 24	1N	15E	10/07/81	139	4.8
Hanging Moss Creek	SW¼SW¼ 25	1N	17E	10/07/81	172	24
Long Branch	S½ 11	2N	16E	09/25/81	2400	78
Tallabogue Creek	SW¼SW¼ 20	2N	17E	09/25/81	1300	420
JASPER COUNTY, MS						
Etehomo Creek	NE¼SE¼ 3	10N	13W	10/06/81	38	4.3
Plant Branch	NW¼NW¼ 25	10N	13W	09/21/81	66	6.9
Tallahomo Creek	NE¼NE¼ 23	2N	10E	10/05/81	108	4.2
Unnamed	NW¼NW¼ 36	2N	10E	10/06/81	720	160
Unnamed	SW¼SE¼ 36	2N	10E	10/06/81	323	48
Piney Creek	SE¼NW¼ 27	2N	10E	10/05/81	115	5.6
East Tallahala Creek	NW¼SE¼ 36	3N	11E	10/05/81	149	16
Unnamed	NW¼NE¼ 2	2N	11E	10/05/81	128	6.2
McVay Creek	NW¼SW¼ 29	3N	12E	10/05/81	186	4.0
Goodwater Creek	NW¼SW¼ 26	3N	12E	10/05/81	15	2.1
Nuakfuppa Creek	NE¼SW¼ 15	2N	11E	10/05/81	105	9.8
Naukfuppa Creek	C 22	2N	11E	10/06/81	154	15

TABLE 9.--Continued

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
		JASPER COUNTY, MS (Continued)				
Tallahatta Creek	SW¼SW¼ 13	1N	12E	10/05/81	201	50
Tallahatta Creek	NE¼SE¼ 33	1N	12E	10/05/81	1370	420
Horse Branch	NW¼NE¼ 1	10N	11W	10/14/81	2800	980
Tallahatta Creek	SW¼SE¼ 3	10N	11W	10/05/81	1300	400
Mill Creek	NW¼NW¼ 14	10N	11W	10/05/81	20	2.0
Bogue Homo	NW¼NW¼ 30	1N	13E	10/22/80	450	84
Beaver Creek	SE¼NE¼ 32	1N	13E	10/05/81	127	6.8
Prairie Creek	SE¼SW¼ 36	1N	12E	10/05/81	1600	400
Prairie Creek	SE¼NE¼ 5	10N	10W	10/05/81	694	150
Bogue Homo	NW¼NE¼ 21	10N	10W	10/22/80	210	21
Flowing Spring	NW¼NW¼ 23	10N	10W	10/14/81	36500	15000
Pachuta Creek	NE¼NW¼ 10	2N	13E	10/05/81	80	.2
		JONES COUNTY, MS				
Plant Branch	NW¼NW¼ 35	10N	13W	09/21/81	7900	2700
Etehomo Creek	NW¼SW¼ 34	10N	13W	10/06/81	72	14
Mill Creek	NW¼NE¼ 5	9N	13W	10/06/81	60	13
Big Creek	NW¼SW¼ 4	9N	13W	09/21/81	67	13
Brady Creek	NE¼NW¼ 10	9N	13W	09/21/81	70	8.1
Big Creek	SE¼SE¼ 17	9N	13W	10/22/80	67	12
Mill Branch	SE¼NW¼ 16	7N	13W	10/06/81	46	6.4
Burr Creek	SW¼SW¼ 34	7N	13W	10/06/81	18	3.2
Tallahalah Creek	SW¼SW¼ 35	10N	11W	10/22/80	145	34
Big Reedy Creek	NE¼SW¼ 33	10N	11W	10/06/81	263	14
Big Reedy Creek	NE¼NE¼ 17	9N	11W	10/06/81	192	47

TABLE 9.--Continued

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
JONES COUNTY, MS (Continued)						
Tallahoma Creek	NW¼NE¼ 10	9N	12W	10/06/81	90	10
Bogue Homo	NE¼NW¼ 8	9N	10W	10/06/81	940	200
Bogue Homo	SE¼NW¼ 20	9N	10W	10/06/81	654	160
Terrel Creek	NE¼NW¼ 26	10N	10W	10/14/81	1200	390
Old Julie Branch	NE¼SW¼ 21	10N	10W	10/06/81	2000	470
Little Bogue Homo	SW¼SW¼ 35	10N	10W	10/06/81	161	33
Little Bogue Homo	SW¼SW¼ 16	9N	10W	10/22/80	88	11
Reedy Creek	NE¼SE¼ 36	10N	11W	10/06/81	320	84
Reedy Creek	SE¼NW¼ 20	9N	10W	10/06/81	120	19
Brushy Creek	NE¼SW¼ 27	9N	10W	10/06/81	80	12
WAYNE COUNTY, MS						
Tampa Creek	SW¼SE¼ 2	9N	9W	09/24/81	590	170
Little Eucutta Creek	SW¼SE¼ 2	9N	9W	09/24/81	2260	67
Little Eucutta Creek	SE¼NE¼ 36	10N	9W	09/24/81	2860	83
Reedy Branch	NE¼NE¼ 30	10N	7W	09/23/81	402	89
Clear Creek	NE¼SW¼ 30	10N	7W	09/23/81	170	2.0
Carson Sand Creek	NE¼SW¼ 34	10N	7W	09/22/81	180	30
Hortons Mill Creek	NW¼SW¼ 13	9N	7W	09/22/81	770	180
Limestone Creek	SW¼NE¼ 25	9N	7W	09/22/81	250	32
Yellow Creek	SE¼SW¼ 15	9N	8W	09/23/81	165	43
Yellow Creek	SE¼SE¼ 10	9N	8W	09/23/81	155	41
Dry Fork	NE¼SW¼ 10	9N	8W	09/24/81	450	130
Dry Fork	NE¼SE¼ 10	9N	8W	09/23/81	440	120

TABLE 9.--Continued

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			WAYNE COUNTY, MS (Continued)			
Yellow Creek	NE¼SW¼ 18	9N	7W	09/23/81	540	150
Silver Creek	NE¼NW¼ 25	9N	8W	09/24/81	135	35
Silver Creek	SE¼SW¼ 18	9N	7W	09/23/81	450	127
Yellow Creek	NW¼SE¼ 16	9N	7W	10/22/80	380	100
Dry Creek	NE¼NW¼ 33	10N	6W	09/22/81	145	3.9
Dry Creek	SE¼SW¼ 12	9N	6W	09/22/81	710	180
Coldwater Creek	NW¼SW¼ 13	9N	6W	09/22/81	120	4.1
Turkey Creek	SE¼SW¼ 31	9N	5W	09/22/81	135	4.9
Buckatunna Creek	SW¼NW¼ 29	7N	5W	09/22/81	75	9.0
Turkey Creek	NE¼NW¼ 12	7N	8W	09/24/81	95	23

TABLE 10.--LOCATION, WELL DEPTH, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT GROUND-WATER SITES IN AREA 5

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			CLARKE COUNTY, MS				
L.E. Alston	SE¼NE¼ 35	1N	17E	*	10/07/81	22	1.5
Jack Cooley	SE¼SW¼ 14	1N	14E	170	10/07/81	750	22
Chester Day	NW¼SW¼ 27	1N	17E	20	10/07/81	360	44
A. Dedwiler	NW¼NE¼ 1	1N	14E	285	10/15/81	500	1.7
B.J. Harrish	SW¼SE¼ 24	1N	17E	20	10/07/81	98	9.1
Mrs. N.W. Mason	SW¼NE¼ 14	1N	14E	200	10/07/81	740	20
Elsie McDaniel	SW¼SW¼ 11	1N	14E	25	10/04/81	360	18
Elsie McDaniel	SW¼SW¼ 11	1N	14E	90	10/04/81	700	22
Herman Rolison	NW¼NW¼ 9	1N	17E	270	10/07/81	284	2.4
W.C. Stallings	SW¼NW¼ 10	1N	14E	190	10/07/81	740	20
T.R. Sykes	SW¼SE¼ 5	2N	16E	30	09/25/81	133	3.1
T.R. Sykes	SW¼SE¼ 5	2N	16E	227	09/25/81	400	2.2
			JASPER COUNTY, MS				
Virgil Ainsworth	SW¼NW¼ 26	10N	13W	35	09/21/81	30	6.1
Waneta Allen	SE¼SW¼ 14	10N	10W	80	10/14/81	208	6.6
Marsha Beard	SE¼NE¼ 35	1N	12E	63	10/15/81	208	54
T.A. Bishop	SW¼NW¼ 16	2N	11E	*	10/13/81	261	3.0
W.N. Bolton	SE¼SW¼ 31	2N	11E	*	10/13/81	49	4.4
Bernice Ellzie	SE¼SE¼ 21	10N	13W	*	10/13/81	28	.2
Dan Jones	NE¼SE¼ 3	1N	12E	40	10/14/81	309	6.6
Floyd Newell	NE¼NW¼ 18	10N	10W	*	10/15/81	72	5.7
Robert Patrick	SW¼NE¼ 13	10N	11W	25	10/14/81	71	9.3

TABLE 10.--Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
JASPER COUNTY, MS (Continued)							
Arthur Pugh	NE¼SW¼ 5	10N	10W	24	10/15/81	134	24
Lexie Pugh	SW¼NW¼ 16	2N	11E	55	10/13/81	143	6.6
W.T. Rowell	NE¼NE¼ 10	10N	11W	118	10/15/81	67	.1
R.B. Thornton	SE¼SE¼ 35	1N	12E	595	10/15/81	810	27
Robert R. Waldrup	NW¼SE¼ 13	1N	12E	495	10/15/81	645	33
JONES COUNTY, MS							
A.M. Black	SW¼SE¼ 35	10N	10W	125	10/14/81	90	2.2
B.L. Boykin	NW¼SE¼ 35	10N	13W	110	10/08/81	36	2.1
R.L. Caves	SW¼NE¼ 8	9N	11W	25	10/08/81	205	31
R.L. Caves	SW¼NW¼ 8	9N	11W	150	10/07/81	260	2.1
John Eubanks	NW¼NE¼ 12	9N	12W	30	10/08/81	231	22
N.P. Gandy	NE¼SE¼ 9	7N	13W	65	10/09/81	88	4.4
Xisia Graves	SW¼NW¼ 7	9N	13W	*	10/09/81	30	3.2
George Green, Sr.	SW¼NE¼ 9	9N	13W	60	10/09/81	25	2.7
George Green, Sr.	SW¼NE¼ 9	9N	13W	85	10/09/81	46	6.4
Elvan Hodge	SE¼SE¼ 14	9N	10W	*	10/14/81	41	1.1
Wright Hodge	SE¼SE¼ 14	9N	10W	28	10/14/81	175	15
Bernard Jefcoat	NE¼SW¼ 1	9N	13W	62	10/08/81	59	9.1
W.E. Jones	SW¼NE¼ 14	7N	13W	*	10/09/81	78	7.2
Claude Knight	NE¼NW¼ 5	9N	13W	65	10/09/81	26	2.6
Calvin McDonald	NE¼NW¼ 25	10N	10W	518	10/14/81	860	28
O.L. Parker	SW¼SW¼ 3	9N	13W	30	10/14/81	78	2.9
M. Rivers	NE¼SW¼ 16	8N	13W	30	10/09/81	268	12
Elsie Ruston	SE¼NW¼ 11	9N	10W	*	10/14/81	460	.6
Sandersville	SE¼SE¼ 30	10N	10W	*	10/14/81	138	3.2
Damon Smith	SW¼NW¼ 4	9N	11W	68	10/08/81	22	1.3

TABLE 10.---Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
JONES COUNTY, MS (Continued)							
Martha Smith	SE¼NW¼ 5	9N	11W	30	10/08/81	148	4.6
L.E. Welch	NW¼SE¼ 5	9N	13W	40	10/09/81	158	16
Francis Yarber	SE¼SW¼ 36	10N	10W	60	10/14/81	63	8.3
WAYNE COUNTY, MS							
John Bishop	NW¼SE¼ 6	8N	5W	100	09/22/81	464	5.3
Eddie Blackledge	SE¼NE¼ 22	9N	6W	62	09/22/81	20	1.9
Bond	NW¼SW¼ 20	8N	9W	*	09/24/81	95	1.0
C.L. Brown, Jr.	NE¼NW¼ 25	9N	8W	100	09/24/81	120	27
J.R. Buckalaw	NE¼SE¼ 36	10N	7W	*	09/22/81	14	3.0
J. Busby	NW¼NW¼ 27	8N	9W	254	09/24/81	28	2.9
Troy Daniels	NE¼NW¼ 35	10N	8W	42	09/23/81	16	2.2
Troy Daniels	NE¼NW¼ 35	10N	8W	54	09/23/81	52	2.0
R. Davis	NE¼SW¼ 18	10N	7W	320	09/23/81	770	26
W.C. Gavin	NE¼NW¼ 16	9N	7W	30	09/23/81	380	14
W.E. Giles	SE¼SW¼ 7	8N	5W	48	09/22/81	34	4.4
Karry Graham	SW¼SE¼ 6	9N	7W	59	09/23/81	136	36
Lamar Graham	NW¼SW¼ 5	9N	7W	162	09/23/81	870	180
Mrs. M. Graham	SE¼SW¼ 31	10N	8W	175	09/24/81	380	2.1
Robert L. Graham	SW¼SE¼ 6	9N	7W	80	09/23/81	310	16
Hudson	SE¼SE¼ 8	9N	5W	250	09/22/81	385	3.6
E.W. Huffman	NE¼NW¼ 7	8N	5W	38	09/22/81	78	4.9
E.W. Huffman	NE¼NW¼ 7	8N	5W	41	09/22/81	21	2.9
Mrs. Virgil Jones	NW¼NW¼ 13	10N	7W	235	09/22/81	980	38

TABLE 10.--Continued

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
			WAYNE COUNTY, MS (Continued)				
George Pugh	NW¼SE¼ 8	9N	7W	66	09/23/81	34	.8
O.R. Reynolds	SE¼NE¼ 12	9N	9W	244	09/24/81	415	2.3
Mrs. S. Strickland	SW¼SE¼ 22	7N	9W	30	09/24/81	46	1.7
Mrs. S. Strickland	SW¼SE¼ 22	7N	9W	100	09/24/81	93	24
G. Taylor	NW¼NE¼ 22	9N	6W	*	09/22/81	29	.2
J. VanOrden	NE¼SW¼ 35	10N	9W	150	09/24/81	280	2.1
T.W. Waldron	NE¼SW¼ 2	9N	9W	30	09/24/81	57	6.1
Fred West	NW¼SW¼ 18	9N	7W	50	09/23/81	32	6.0

* Well depth unknown, but estimated to be less than 300 feet

TABLE 11.--LOCATION, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT SURFACE-WATER SITES IN AREA 6

STREAM	LOCATION SEC.	T.	R.	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
FORREST COUNTY, MS						
Beaverdam Creek	SW¼SW¼ 4	1S	12W	10/20/81	60	15
Double Branch	SE¼NE¼ 17	1S	13W	10/20/81	450	130
Double Branch	SE¼NW¼ 27	1S	13W	10/20/81	130	32
Billy Branch	SW¼SW¼ 18	1S	13W	10/20/81	34	5.2
Red Creek	SE¼NW¼ 32	1S	13W	10/20/81	110	26
Mill Creek	NE¼NE¼ 15	1S	13W	10/20/81	101	17
Mill Creek	NE¼NW¼ 27	1S	13W	10/20/81	67	13
Unnamed	NE¼NW¼ 9	1S	13W	10/20/81	450	120
Pond	SW¼SE¼ 5	1S	13W	10/21/81	6710	2300
PEARL RIVER COUNTY, MS						
Parker Creek	SE¼NE¼ 3	1S	14W	10/21/81	49	9.8
Parker Creek	NE¼SW¼ 11	1S	14W	10/20/81	270	76
Unnamed	NE¼NE¼ 2	1S	14W	10/20/81	34	5.9
Unnamed	NE¼SE¼ 11	1S	14W	10/20/81	610	180
Dry Creek	SE¼NW¼ 13	1S	14W	10/20/81	230	54
Wash Creek	SW¼NE¼ 13	1S	14W	10/20/81	220	59

TABLE 12.--LOCATION, WELL DEPTH, SPECIFIC CONDUCTANCE, AND CHLORIDE CONCENTRATIONS AT GROUND-WATER SITES IN AREA 6

OWNER	LOCATION SEC.	T.	R.	WELL DEPTH (ft)	DATE OF COLLECTION	SPECIFIC CONDUCTANCE (micromhos/cm)	CHLORIDE (mg/L)
FORREST COUNTY, MS							
Betty Archer	NE¼NE¼ 8	1S	13W	*	10/20/81	80	13
Carl Archer	NW¼SW¼ 3	1S	13W	50	10/21/81	23	2.0
Itta Bounds	SE¼NW¼ 17	1S	13W	40	10/21/81	21	2.1
W.C. Entrekin	SW¼SW¼ 4	1S	13W	350	10/21/81	170	4.8
W.C. Entrekin	SW¼NW¼ 9	1S	13W	28	10/21/81	59	1.0
Zellena Entrekin	SE¼SW¼ 4	1S	13W	350	10/21/81	125	2.2
Ottis Lee	SW¼SE¼ 4	1S	13W	82	10/20/81	39	1.9
P.A. McCardle	NE¼NE¼ 18	1S	13W	32	10/20/81	68	9.6
Bernie Nall	SW¼SW¼ 18	1S	13W	40	10/20/81	31	3.6
Wesley Rawls	SE¼SW¼ 3	1S	13W	41	10/21/81	22	2.7
Eddie Scarbourgh	SE¼NW¼ 1	1S	13W	*	10/20/81	25	2.1
K.L. Smith	SW¼SE¼ 5	1S	13W	89	10/21/81	23	1.3
K.L. Smith, Jr.	SW¼SE¼ 5	1S	13W	*	10/21/81	36	15
Ophelia Walters	NE¼NW¼ 7	1S	13W	50	10/21/81	23	3.2
PEARL RIVER COUNTY, MS							
Ronald Boe	SW¼SE¼ 3	1S	14W	*	10/21/81	400	98
Tommy Brown	NW¼NE¼ 2	1S	14W	30	11/21/81	42	3.1
Mrs. H.L. Ladner	SW¼NE¼ 4	1S	14W	40	10/21/81	26	1.1
P. Ladner	SW¼NE¼ 2	1S	14W	51	10/21/81	32	3.8
Rocky McCadala	NE¼NW¼ 3	1S	14W	73	10/21/81	48	4.8
Glenis Merritt	SE¼NW¼ 2	1S	14W	67	10/20/81	32	2.0
J.B. Merritt	SE¼NW¼ 2	1S	14W	97	10/20/81	2160	680
A.W. Nall	SE¼NW¼ 2	1S	14W	52	10/20/81	410	110
James Owen	NE¼SW¼ 2	1S	14W	55	10/21/81	21	1.8

* Well depth unknown, but estimated to be less than 300 feet

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